

Ronald Wetzel

List of Publications by Year in descending order

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103
papers

14,203
citations

20036

63
h-index

35168

102
g-index

105
all docs

105
docs citations

105
times ranked

11424
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlative light and electron microscopy suggests that mutant huntingtin dysregulates the endolysosomal pathway in presymptomatic Huntington's disease. <i>Acta Neuropathologica Communications</i> , 2021, 9, 70.	2.4	7
2	Exploding the Repeat Length Paradigm while Exploring Amyloid Toxicity in Huntington's Disease. <i>Accounts of Chemical Research</i> , 2020, 53, 2347-2357.	7.6	25
3	RAD52 is required for RNA-templated recombination repair in post-mitotic neurons. <i>Journal of Biological Chemistry</i> , 2018, 293, 1353-1362.	1.6	69
4	Mutational analysis implicates the amyloid fibril as the toxic entity in Huntington's disease. <i>Neurobiology of Disease</i> , 2018, 120, 126-138.	2.1	37
5	An Aggregate Weight-Normalized Thioflavin-T Measurement Scale for Characterizing Polymorphic Amyloids and Assembly Intermediates. <i>Methods in Molecular Biology</i> , 2018, 1777, 121-144.	0.4	23
6	Fibril polymorphism affects immobilized non-amyloid flanking domains of huntingtin exon1 rather than its polyglutamine core. <i>Nature Communications</i> , 2017, 8, 15462.	5.8	81
7	Backbone Engineering within a Latent β -Hairpin Structure to Design Inhibitors of Polyglutamine Amyloid Formation. <i>Journal of Molecular Biology</i> , 2017, 429, 308-323.	2.0	21
8	Rapid β -oligomer formation mediated by the $A\beta$ C terminus initiates an amyloid assembly pathway. <i>Nature Communications</i> , 2016, 7, 12419.	5.8	51
9	Huntingtin exon 1 fibrils feature an interdigitated β -hairpin-based polyglutamine core. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1546-1551.	3.3	143
10	Fluorescence Correlation Spectroscopy: A Tool to Study Protein Oligomerization and Aggregation In Vitro and In Vivo. <i>Methods in Molecular Biology</i> , 2016, 1345, 67-87.	0.4	19
11	C-Terminal Threonine Reduces $A\beta^{243}$ Amyloidogenicity Compared with $A\beta^{242}$. <i>Journal of Molecular Biology</i> , 2016, 428, 274-291.	2.0	20
12	Folding Landscape of Mutant Huntingtin Exon1: Diffusible Multimers, Oligomers and Fibrils, and No Detectable Monomer. <i>PLoS ONE</i> , 2016, 11, e0155747.	1.1	48
13	Huntington disease. <i>Nature Reviews Disease Primers</i> , 2015, 1, 15005.	18.1	1,031
14	Triosephosphate isomerase I170V alters catalytic site, enhances stability and induces pathology in a <i>Drosophila</i> model of TPI deficiency. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 61-69.	1.8	29
15	Direct visualization of HIV-enhancing endogenous amyloid fibrils in human semen. <i>Nature Communications</i> , 2014, 5, 3508.	5.8	95
16	Biophysical Underpinnings of the Repeat Length Dependence of Polyglutamine Amyloid Formation. <i>Journal of Biological Chemistry</i> , 2014, 289, 10254-10260.	1.6	34
17	Improved chemical synthesis of hydrophobic $A\beta$ peptides using addition of C-terminal lysines later removed by carboxypeptidase B. <i>Biopolymers</i> , 2014, 102, 206-221.	1.2	18
18	Aggregation Behavior of Chemically Synthesized, Full-Length Huntingtin Exon1. <i>Biochemistry</i> , 2014, 53, 3897-3907.	1.2	37

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19	Polyglutamine Amyloid Core Boundaries and Flanking Domain Dynamics in Huntingtin Fragment Fibrils Determined by Solid-State Nuclear Magnetic Resonance. <i>Biochemistry</i> , 2014, 53, 6653-6666.	1.2	74
20	d-Polyglutamine Amyloid Recruits l-Polyglutamine Monomers and Kills Cells. <i>Journal of Molecular Biology</i> , 2014, 426, 816-829.	2.0	36
21	<i>Structural Biology.</i> , 2014, , .		2
22	Levels of supramolecular chirality of polyglutamine aggregates revealed by vibrational circular dichroism. <i>FEBS Letters</i> , 2013, 587, 1638-1643.	1.3	31
23	β^2 -Hairpin-Mediated Nucleation of Polyglutamine Amyloid Formation. <i>Journal of Molecular Biology</i> , 2013, 425, 1183-1197.	2.0	91
24	A serendipitous survey of prediction algorithms for amyloidogenicity. <i>Biopolymers</i> , 2013, 100, 780-789.	1.2	21
25	Slow Amyloid Nucleation via β^1 -Helix-Rich Oligomeric Intermediates in Short Polyglutamine-Containing Huntingtin Fragments. <i>Journal of Molecular Biology</i> , 2012, 415, 881-899.	2.0	166
26	Inhibiting the Nucleation of Amyloid Structure in a Huntingtin Fragment by Targeting β^1 -Helix-Rich Oligomeric Intermediates. <i>Journal of Molecular Biology</i> , 2012, 415, 900-917.	2.0	76
27	Physical Chemistry of Polyglutamine: Intriguing Tales of a Monotonous Sequence. <i>Journal of Molecular Biology</i> , 2012, 421, 466-490.	2.0	155
28	Serine Phosphorylation Suppresses Huntingtin Amyloid Accumulation by Altering Protein Aggregation Properties. <i>Journal of Molecular Biology</i> , 2012, 424, 1-14.	2.0	76
29	Kinetically Competing Huntingtin Aggregation Pathways Control Amyloid Polymorphism and Properties. <i>Biochemistry</i> , 2012, 51, 2706-2716.	1.2	66
30	The Aggregation-Enhancing Huntingtin N-Terminus Is Helical in Amyloid Fibrils. <i>Journal of the American Chemical Society</i> , 2011, 133, 4558-4566.	6.6	158
31	Assays for studying nucleated aggregation of polyglutamine proteins. <i>Methods</i> , 2011, 53, 246-254.	1.9	29
32	Critical nucleus size for disease-related polyglutamine aggregation is repeat-length dependent. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 328-336.	3.6	187
33	Apolipoprotein A-I Deficiency Increases Cerebral Amyloid Angiopathy and Cognitive Deficits in APP/PS1 β E9 Mice. <i>Journal of Biological Chemistry</i> , 2010, 285, 36945-36957.	1.6	106
34	Structural Variations in the Cross- β^2 Core of Amyloid β^2 Fibrils Revealed by Deep UV Resonance Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2010, 132, 6324-6328.	6.6	65
35	β^2 (1 β 40) Forms Five Distinct Amyloid Structures whose β^2 -Sheet Contents and Fibril Stabilities Are Correlated. <i>Journal of Molecular Biology</i> , 2010, 401, 503-517.	2.0	206
36	The impact of ataxin-1-like histidine insertions on polyglutamine aggregation. <i>Protein Engineering, Design and Selection</i> , 2009, 22, 469-478.	1.0	32

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37	Polyglutamine disruption of the huntingtin exon 1 N terminus triggers a complex aggregation mechanism. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 380-389.	3.6	384
38	Serines 13 and 16 Are Critical Determinants of Full-Length Human Mutant Huntingtin Induced Disease Pathogenesis in HD Mice. <i>Neuron</i> , 2009, 64, 828-840.	3.8	288
39	Molecular basis for passive immunotherapy of Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15659-15664.	3.3	99
40	In-cell Aggregation of a Polyglutamine-containing Chimera Is a Multistep Process Initiated by the Flanking Sequence. <i>Journal of Biological Chemistry</i> , 2007, 282, 36736-36743.	1.6	58
41	Plasticity of Amyloid Fibrils. <i>Biochemistry</i> , 2007, 46, 1-10.	1.2	115
42	Amyloid adhesins are abundant in natural biofilms. <i>Environmental Microbiology</i> , 2007, 9, 3077-3090.	1.8	291
43	Polymorphism in the intermediates and products of amyloid assembly. <i>Current Opinion in Structural Biology</i> , 2007, 17, 48-57.	2.6	349
44	Kinetics and Thermodynamics of Amyloid Assembly Using a High-Performance Liquid Chromatography-Based Sedimentation Assay. <i>Methods in Enzymology</i> , 2006, 413, 34-74.	0.4	131
45	Hydrogen/Deuterium Exchange Mass Spectrometry Analysis of Protein Aggregates. <i>Methods in Enzymology</i> , 2006, 413, 140-166.	0.4	28
46	Kinetics and Thermodynamics of Amyloid Fibril Assembly. <i>Accounts of Chemical Research</i> , 2006, 39, 671-679.	7.6	259
47	Hydrogen/Deuterium Exchange Mass Spectrometry A Window into Amyloid Structure. <i>Accounts of Chemical Research</i> , 2006, 39, 584-593.	7.6	65
48	Oligoproline Effects on Polyglutamine Conformation and Aggregation. <i>Journal of Molecular Biology</i> , 2006, 355, 524-535.	2.0	235
49	Alanine Scanning Mutagenesis of A ^β (1-40) Amyloid Fibril Stability. <i>Journal of Molecular Biology</i> , 2006, 357, 1283-1294.	2.0	154
50	Structural Differences in A ^β Amyloid Protofibrils and Fibrils Mapped by Hydrogen Exchange Mass Spectrometry with On-line Proteolytic Fragmentation. <i>Journal of Molecular Biology</i> , 2006, 361, 785-795.	2.0	130
51	Nucleation of huntingtin aggregation in cells. <i>Nature Chemical Biology</i> , 2006, 2, 297-298.	3.9	21
52	Imaging Polyglutamine Deposits in Brain Tissue. <i>Methods in Enzymology</i> , 2006, 412, 106-122.	0.4	40
53	Fluorescence correlation spectroscopy shows that monomeric polyglutamine molecules form collapsed structures in aqueous solutions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 16764-16769.	3.3	265
54	Scanning Cysteine Mutagenesis Analysis of A ^β (1-40) Amyloid Fibrils. <i>Journal of Biological Chemistry</i> , 2006, 281, 993-1000.	1.6	69

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55	Analysis of Amyloid Fibril Structure by Scanning Cysteine Mutagenesis. <i>Methods in Enzymology</i> , 2006, 413, 182-198.	0.4	9
56	Normal-repeat-length polyglutamine peptides accelerate aggregation nucleation and cytotoxicity of expanded polyglutamine proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 14367-14372.	3.3	73
57	CA150 Expression Delays Striatal Cell Death in Overexpression and Knock-In Conditions for Mutant Huntingtin Neurotoxicity. <i>Journal of Neuroscience</i> , 2006, 26, 4649-4659.	1.7	48
58	Behavioral abnormalities precede neuropathological markers in rats transgenic for Huntington's disease. <i>Human Molecular Genetics</i> , 2006, 15, 3177-3194.	1.4	109
59	Polyglutamine homopolymers having 8-45 residues form slablike β -crystallite assemblies. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 61, 398-411.	1.5	106
60	Structural properties of A β protofibrils stabilized by a small molecule. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7115-7120.	3.3	135
61	Absence of behavioral abnormalities and neurodegeneration in vivo despite widespread neuronal huntingtin inclusions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11402-11407.	3.3	247
62	Polyglutamine aggregation nucleation: Thermodynamics of a highly unfavorable protein folding reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 15400-15405.	3.3	154
63	Thermodynamics of A β (1-40) Amyloid Fibril Elongation. <i>Biochemistry</i> , 2005, 44, 12709-12718.	1.2	210
64	Hydrogen-Deuterium (H/D) Exchange Mapping of A β 1-40 Amyloid Fibril Secondary Structure Using Nuclear Magnetic Resonance Spectroscopy. <i>Biochemistry</i> , 2005, 44, 4434-4441.	1.2	124
65	Seeding Specificity in Amyloid Growth Induced by Heterologous Fibrils. <i>Journal of Biological Chemistry</i> , 2004, 279, 17490-17499.	1.6	377
66	Inhibition of polyglutamine aggregate cytotoxicity by a structure-based elongation inhibitor. <i>FASEB Journal</i> , 2004, 18, 923-925.	0.2	40
67	Molecular modeling of the core of A β amyloid fibrils. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 57, 357-364.	1.5	59
68	Kinetic analysis of beta-amyloid fibril elongation. <i>Analytical Biochemistry</i> , 2004, 328, 67-75.	1.1	183
69	An Intersheet Packing Interaction in A β Fibrils Mapped by Disulfide Cross-Linking. <i>Biochemistry</i> , 2004, 43, 15310-15317.	1.2	65
70	Mapping A β Amyloid Fibril Secondary Structure Using Scanning Proline Mutagenesis. <i>Journal of Molecular Biology</i> , 2004, 335, 833-842.	2.0	377
71	Eukaryotic Proteasomes Cannot Digest Polyglutamine Sequences and Release Them during Degradation of Polyglutamine-Containing Proteins. <i>Molecular Cell</i> , 2004, 14, 95-104.	4.5	363
72	Enhanced correction methods for hydrogen exchange-mass spectrometric studies of amyloid fibrils. <i>Protein Science</i> , 2003, 12, 635-643.	3.1	39

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73	A β Protofibrils Possess a Stable Core Structure Resistant to Hydrogen Exchange. <i>Biochemistry</i> , 2003, 42, 14092-14098.	1.2	127
74	Conformational Abs recognizing a generic amyloid fibril epitope. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 1485-1490.	3.3	311
75	Huntington's disease age-of-onset linked to polyglutamine aggregation nucleation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 11884-11889.	3.3	496
76	Aggregated polyglutamine peptides delivered to nuclei are toxic to mammalian cells. <i>Human Molecular Genetics</i> , 2002, 11, 2905-2917.	1.4	321
77	Amyloid-like Features of Polyglutamine Aggregates and Their Assembly Kinetics. <i>Biochemistry</i> , 2002, 41, 7391-7399.	1.2	315
78	Ideas of Order for Amyloid Fibril Structure. <i>Structure</i> , 2002, 10, 1031-1036.	1.6	132
79	Mutational analysis of the structural organization of polyglutamine aggregates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 17014-17019.	3.3	200
80	Structural Features of the A β Amyloid Fibril Elucidated by Limited Proteolysis. <i>Biochemistry</i> , 2001, 40, 11757-11767.	1.2	217
81	Polyglutamine aggregation behavior in vitro supports a recruitment mechanism of cytotoxicity. <i>Journal of Molecular Biology</i> , 2001, 311, 173-182.	2.0	310
82	A Microtiter Plate Assay for Polyglutamine Aggregate Extension. <i>Analytical Biochemistry</i> , 2001, 295, 227-236.	1.1	29
83	Solubilization and disaggregation of polyglutamine peptides. <i>Protein Science</i> , 2001, 10, 887-891.	3.1	169
84	Seeding of A β Fibril Formation Is Inhibited by All Three Isoforms of Apolipoprotein E. <i>Biochemistry</i> , 1996, 35, 12623-12628.	1.2	117
85	Physical, Morphological and Functional Differences between pH 5.8 and 7.4 Aggregates of the Alzheimer's Amyloid Peptide A β . <i>Journal of Molecular Biology</i> , 1996, 256, 870-877.	2.0	358
86	Specificity of Abnormal Assembly in Immunoglobulin Light Chain Deposition Disease and Amyloidosis. <i>Journal of Molecular Biology</i> , 1996, 257, 77-86.	2.0	105
87	For Protein Misassembly, It's the '90s Decade. <i>Cell</i> , 1996, 86, 699-702.	13.5	161
88	Selective Inhibition of A β Fibril Formation. <i>Journal of Biological Chemistry</i> , 1996, 271, 4086-4092.	1.6	175
89	Destabilizing loop swaps in the CDRs of an immunoglobulin V _L domain. <i>Protein Science</i> , 1995, 4, 2073-2081.	3.1	44
90	Prolines and Amyloidogenicity in Fragments of the Alzheimer's Peptide .beta./A4. <i>Biochemistry</i> , 1995, 34, 724-730.	1.2	337

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91	Aggregation State and Neurotoxic Properties of Alzheimer Beta-Amyloid Peptide. <i>Experimental Neurology</i> , 1995, 4, 23-32.	1.7	178
92	Recombinant immunoglobulin variable domains generated from synthetic genes provide a system for in vitro characterization of light chain amyloid proteins. <i>Protein Science</i> , 1995, 4, 421-432.	3.1	98
93	Mutations and off-pathway aggregation of proteins. <i>Trends in Biotechnology</i> , 1994, 12, 193-198.	4.9	260
94	Inclusion body formation by interleukin-1 β depends on the thermal sensitivity of a folding intermediate. <i>FEBS Letters</i> , 1994, 350, 245-248.	1.3	37
95	Breakdown in the relationship between thermal and thermodynamic stability in an interleukin-1 β point mutant modified in a surface loop. <i>Protein Engineering, Design and Selection</i> , 1993, 6, 733-738.	1.0	40
96	Simplification of high-energy collision spectra of peptides by amino-terminal derivatization. <i>Analytical Chemistry</i> , 1993, 65, 1703-1708.	3.2	64
97	Strong inhibition of fibrinogen binding to platelet receptor α IIb β 3 by RGD sequences installed into a presentation scaffold. <i>Protein Engineering, Design and Selection</i> , 1993, 6, 745-754.	1.0	34
98	A general method for highly selective crosslinking of unprotected polypeptides via pH-controlled modification of N-terminal .alpha.-amino groups. <i>Bioconjugate Chemistry</i> , 1990, 1, 114-122.	1.8	72
99	Harnessing disulfide bonds using protein engineering. <i>Trends in Biochemical Sciences</i> , 1987, 12, 478-482.	3.7	120
100	Expression in escherichia coli of a chemically synthesized gene for a "mini"-analog of human proinsulin. <i>Gene</i> , 1981, 16, 63-71.	1.0	51
101	Assignment of the disulphide bonds of leukocyte interferon. <i>Nature</i> , 1981, 289, 606-607.	13.7	108
102	Properties of a Human Alpha-Interferon Purified from E. Coli Extracts. <i>Journal of Interferon Research</i> , 1981, 1, 381-390.	1.2	64
103	Production of biologically active N.alpha.-deacetylthymosin .alpha.1 in Escherichia coli through expression of a chemically synthesized gene. <i>Biochemistry</i> , 1980, 19, 6096-6104.	1.2	86